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☐   1. **Use of wideband waveforms for target recognition with surveillance radars**
Linde, G.;
Radar Conference, 2000. The Record of the IEEE 2000 International
7-12 May 2000 Page(s):128 - 133
Digital Object Identifier 10.1109/RADAR.2000.851817

AbstractPlus | Full Text: PDF(476 KB) · **IEEE CNF**

☐   2. **Radar target recognition by fuzzy logic**
Colin, N.; Moruzzis, M.;
Radar Conference, 1997., IEEE National
13-15 May 1997 Page(s):257 - 262
Digital Object Identifier 10.1109/NRC.1997.588316

AbstractPlus | Full Text: PDF(428 KB)   **IEEE CNF**

☐   3. **Computer simulation of target backscattering as element of perspective radar desi**
Leshchenko, S.P.; Orlenko, V.M.; Shirman, Y.D.;
Antenna Theory and Techniques, 2003. IVth International Conference on
Volume 1, 9-12 Sept. 2003 Page(s):389 - 393 vol.1
Digital Object Identifier 10.1109/ICATT.2003.1239239

AbstractPlus | Full Text: PDF(435 KB)   **IEEE CNF**

☐   4. **A novel subgridding scheme based on a combination of the finite-element and fini difference time-domain methods**
Monorchio, A.; Mittra, R.;
Antennas and Propagation, IEEE Transactions on
Volume 46, Issue 9, Sept. 1998 Page(s):1391 - 1393
Digital Object Identifier 10.1109/8.719987

AbstractPlus | References | Full Text: PDF(152 KB)   **IEEE JNL**

☐   5. **Iterated wavelet transformation and signal discrimination for HRR radar target recognition**
Nelson, D.E.; Starzyk, J.A.; Ensley, D.D.;
Systems, Man and Cybernetics, Part A, IEEE Transactions on
Volume 33, Issue 1, Jan. 2003 Page(s):52 - 57
Digital Object Identifier 10.1109/TSMCA.2003.808253

AbstractPlus | References | Full Text: PDF(360 KB)   **IEEE JNL**

☐   6. **Three-dimensional SAR imaging of a ground moving target using the InISAR techr**
Qun Zhang; Tat Soon Yeo;
Geoscience and Remote Sensing, IEEE Transactions on

Volume 42, Issue 9, Sept. 2004 Page(s):1818 - 1828
Digital Object Identifier 10.1109/TGRS.2004.831863

AbstractPlus | References | Full Text: PDF(816 KB)   IEEE JNL

☐ **7. Advantages and problems of wideband radar**
Shirman, Y.D.; Leshchenko, S.P.; Orlenko, V.M.;
Radar Conference, 2003. Proceedings of the International
3-5 Sept. 2003 Page(s):15 - 21
Digital Object Identifier 10.1109/RADAR.2003.1278703

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L2	638	(helicopter$1) with (class$ or ident$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 08:52
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L7	30	("2602836" | "2922123" | "3119999" | "3140486" | "3404399" | "3480884" | "3898658" | "3924182" | "3984802" | "4053891" | "4106014").PN. OR ("4603331"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/27 10:18
L8	9	("3984802" | "3992710" | "4470048" | "4490718" | "4603331").PN. OR ("5012252"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/27 10:32
L9	932	342/90.ccls. or 342/192.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 10:33
L10	424427	helicopter$1 or rotor$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 10:33

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Accession number & update
        8256012, B2005-02-7950-053; 20050123.
Title
        ISAR imaging of flying helicopters at millimeter-wave frequencies.
Author(s)
        Hagelen-M; Wahlen-A; Brehm-T.
Author affiliation
        Dept Millimeterwave & Seeker Radar, FGAN Res Inst for High-Frequency Phys & Radar Technique, Wachtberg, Germany.
Source
        Conference Proceedings. 1st European Radar Conference, Amsterdam, Netherlands, 14-15 Oct. 2004.
        In: p.265-8, 2004.
Publication year
        2004.
Language
        EN.
Publication type
        CPP Conference Paper.
Treatment codes
        P Practical.

Abstract
        The advantages of radar systems operating at millimeter-wave frequencies can be used for imaging flying
        objects, e.g. helicopters, by means of the ISAR principle. Using this technique, it is possible to deliver a data
        base, which contains high resolution scatterer distributions of different targets and for different **aspect
        angles.** Under civil war conditions, this data can be compared with ISAR images of approaching targets in
        order to distinguish between friendly and threat vehicles. (10 refs).

Descriptors
        backscatter; helicopters; image-classification; image-resolution;
        millimetre-wave-imaging; radar-imaging; synthetic-aperture-radar.
Keywords
        target **classification;** mm wave ISAR imaging; flying **helicopter** imaging; flying object imaging; high
        resolution target scatterer distributions; civil war conditions; friendly threat vehicle discrimination; 10 GHz; 35
        GHz; 94 GHz; 800 MHz.
Classification codes

        B7950   (Military radar, detection and tracking systems)..
        B6135   (Optical, image and video signal processing).
        B6320   (Radar equipment, systems and applications).

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frequency: 1.0E+10 Hz, 3.5E+10 Hz, 9.4E+10 Hz.
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☐   1. **On the scattering mechanism of power lines at millimeter-waves**
Essen, H.; Boehmsdorff, S.; Biegel, G.; Wahlen, A.;
Geoscience and Remote Sensing, IEEE Transactions on
Volume 40, Issue 9, Sept. 2002 Page(s):1895 - 1903
Digital Object Identifier 10.1109/TGRS.2002.805144

AbstractPlus | References | Full Text: PDF(1405 KB)   **IEEE JNL**

☐   2. **Extraction of power line maps from millimeter-wave polarimetric SAR images**
Sarabandi, K.; Park, M.;
Antennas and Propagation, IEEE Transactions on
Volume 48, Issue 12, Dec. 2000 Page(s):1802 - 1809
Digital Object Identifier 10.1109/8.901268

AbstractPlus | References | Full Text: PDF(220 KB)   **IEEE JNL**

☐   3. **A comparison of Markov and constant turn rate models in an adaptive Kalman filte tracker**
Bauschlicher, J.; Asher, R.; Dayton, D.;
Aerospace and Electronics Conference, 1989. NAECON 1989., Proceedings of the IEEE National
22-26 May 1989 Page(s):116 - 123 vol.1
Digital Object Identifier 10.1109/NAECON.1989.40200

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☐   4. **Automatic segmentation of multiple VHF-band SAR images to improve stem volun retrieval**
Folkesson, K.; Smith, G.; Ulander, L.M.H.;
Geoscience and Remote Sensing Symposium, 2004. IGARSS '04. Proceedings. 2004 IE International
Volume 1, 20-24 Sept. 2004 Page(s):519 - 522
Digital Object Identifier 10.1109/IGARSS.2004.1369078

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☐   5. **Stem volume retrieval at stand level using multiple low-frequency SAR images**
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6. **The military applications of remote sensing by infrared**
Hudson, R.D., Jr.; Hudson, J.W.;
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Volume 63, Issue 1, Jan. 1975 Page(s):104 - 128
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7. **Birds and insects as radar targets: A review**
Vaughn, C.R.;
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Volume 73, Issue 2, Feb. 1985 Page(s):205 - 227
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8. **Analysis of doppler measurements of ground vehicles**
Kjellgren, J.; Gadd, S.; Jonsson, N.; Gustavsson, J.;
Radar Conference, 2005 IEEE International
9-12 May 2005 Page(s):284 - 289
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9. **A Doppler-based target classifier using linear discriminants and principal compon**
Stove, A.G.; Sykes, S.R.;
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3-5 Sept. 2003 Page(s):171 - 176
Digital Object Identifier 10.1109/RADAR.2003.1278734
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10. **A novel subgridding scheme based on a combination of the finite-element and fini difference time-domain methods**
Monorchio, A.; Mittra, R.;
Antennas and Propagation, IEEE Transactions on
Volume 46, Issue 9, Sept. 1998 Page(s):1391 - 1393
Digital Object Identifier 10.1109/8.719987
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11. **Millimeter-wave radar phenomenology of power lines and a polarimetric detection algorithm**
Sarabandi, K.; Moonsoo Park;
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Digital Object Identifier 10.1109/8.817656
AbstractPlus | References | Full Text: PDF(324 KB)   IEEE JNL

12. **Hybrid FM-polynomial phase signal modeling: parameter estimation and Cramer-F bounds**
Gini, F.; Giannakis, G.B.;
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Volume 47, Issue 2, Feb. 1999 Page(s):363 - 377
Digital Object Identifier 10.1109/78.740122
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13. **Survey of maneuvering target tracking. Part I. Dynamic models**
Rong Li, X.; Jilkov, V.P.;
Aerospace and Electronic Systems, IEEE Transactions on
Volume 39, Issue 4, Oct. 2003 Page(s):1333 - 1364
Digital Object Identifier 10.1109/TAES.2003.1261132
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14. **A radar cross-section model for power lines at millimeter-wave frequencies**
Sarabandi, K.; Moonsoo Park;
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Volume 51, Issue 9, Sep 2003 Page(s):2353 - 2360
Digital Object Identifier 10.1109/TAP.2003.816380

AbstractPlus | Full Text: PDF(772 KB)   IEEE JNL

☐ 15. **Joint utilization of incoherently and coherently integrated radar signal in helicopte categorization**
Tikkinen, J.M.; Helander, E.E.; Visa, A.;
Radar Conference, 2005 IEEE International
9-12 May 2005 Page(s):540 - 545

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☐ 16. **Overview of directed energy weapon developments**
Weise, Th.H.G.G.; Jung, M.; Langhans, D.; Gowin, M.;
Electromagnetic Launch Technology, 2004. 2004 12th Symposium on
25-28 May 2005 Page(s):483 - 489
Digital Object Identifier 10.1109/ELT.2004.1398128

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☐ 17. **Overview of sensor fusion research at RDECOM - NVESD & recent results on vehi detection using multiple sensor nodes**
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☐ 18. **Quick response airborne deployment of VIPER muzzle flash detection and locatioi system during DC sniper attacks**
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15-17 Oct. 2003 Page(s):221 - 225
Digital Object Identifier 10.1109/AIPR.2003.1284275

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Smiths, A.B.; van Genderen, P.;
Phased Array Systems and Technology, 2003. IEEE International Symposium on
14-17 Oct. 2003 Page(s):241 - 246
Digital Object Identifier 10.1109/PAST.2003.1256988

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☐ 20. **Analysis of slope failures due to the 2000 Tokai Heavy Rainfall using high resoluti satellite images**
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Volume 4, 21-25 July 2003 Page(s):2413 - 2418 vol.4
Digital Object Identifier 10.1109/IGARSS.2003.1294459

AbstractPlus | Full Text: PDF(2328 KB)   IEEE CNF

☐ 21. **Advanced synthetic aperture radar imaging and feature analysis**
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3-5 Sept. 2003 Page(s):22 - 29
Digital Object Identifier 10.1109/RADAR.2003.1278704

AbstractPlus | Full Text: PDF(575 KB)   IEEE CNF

☐ 22. **Radar target recognition by fuzzy logic**
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Radar Conference, 1997., IEEE National
13-15 May 1997 Page(s):257 - 262

Digital Object Identifier 10.1109/NRC.1997.588316

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☐   **23. A 3D perspective for radar cross section visualization**
Preiss, B.; Tollefson, M.; Howard, R.;
Aerospace Conference, 1997. Proceedings., IEEE
Volume 2, 1-8 Feb. 1997 Page(s):95 - 112 vol.2
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